

## MD iMap Technical Committee Meeting Minutes

Place: Department of the Environment (MDE): Terra Room (Baltimore, MD)

Date: 02/04/2014

Time: 1:00PM – 3:00 PM

Attendees: Rowland Agbede (MDA), Michael Bentivegna (CGIS), Michael Blahut (SHA), John Bocan (MES/DoIT), Mary Buffington (ESRGC), Jim Cannistra (MDP), Kevin Coyne (DNR), Kaushik Dutta (MDTA), Bill Fearington (DHR), Julia Fischer (DoIT), Mara Kaminowitz (BMC), Lisa Lowe (DoIT), Graham Petto (MDP), Russell Provost (ESRGC/DoIT), Frank Siano (MDE), Erin Silva (ESRGC) and Matt Sokol (DoIT)

Phone Attendees: Sarra Blevins (LocationAge), Ashley Buzzeo (CGIS), Taylor Keen (UMD), Pat McLoughlin (SSA), Dan Smith (CEM) and Brad Wolters (DHCD)

### AGENDA:

- Introductions 1:00 – 1:10
- MD ELA Statistics Update 1:10 – 1:15
- MDP Budget Hearing Experience – *Jim Cannistra* 1:15 – 1:25
- MD iMap 2.0 Changes 1:25 – 1:50
  - Preview – *Matt Sokol*
  - Data Catalog – *Barney Krucoff*
- Data & Resources Subcommittee Updates 1:50 – 2:25
  - Addressing Initiative – *Russell Provost*
  - Geocoder Update – *CGIS*
  - Centerlines Update – *SHA*
  - LiDAR Webpage Update – *ESRGC*
- Application Subcommittee Updates 2:25 – 2:35
  - Template Update – *MES*
- Outreach Subcommittee Updates 2:35 – 2:55
  - TUGIS Presentation Update – *Julia Fischer*
  - Website Changes Preview – *Julia Fischer*
- Additional Business 2:55 – 3:00

## Introductions

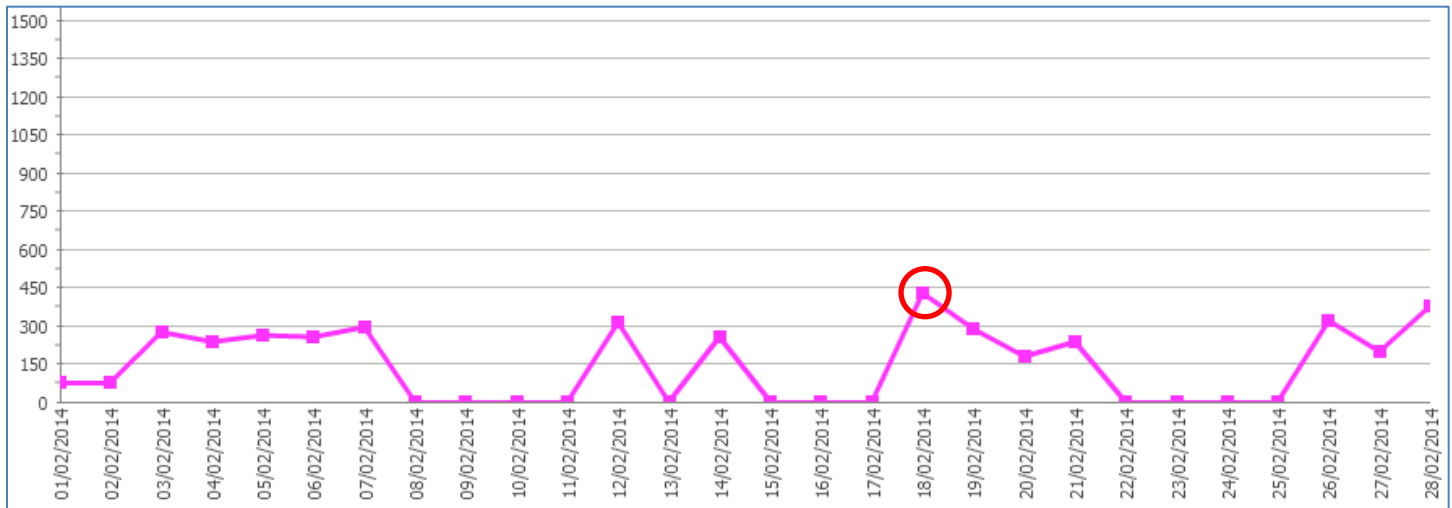
### Round-the-room

## MD ELA Statistics Update

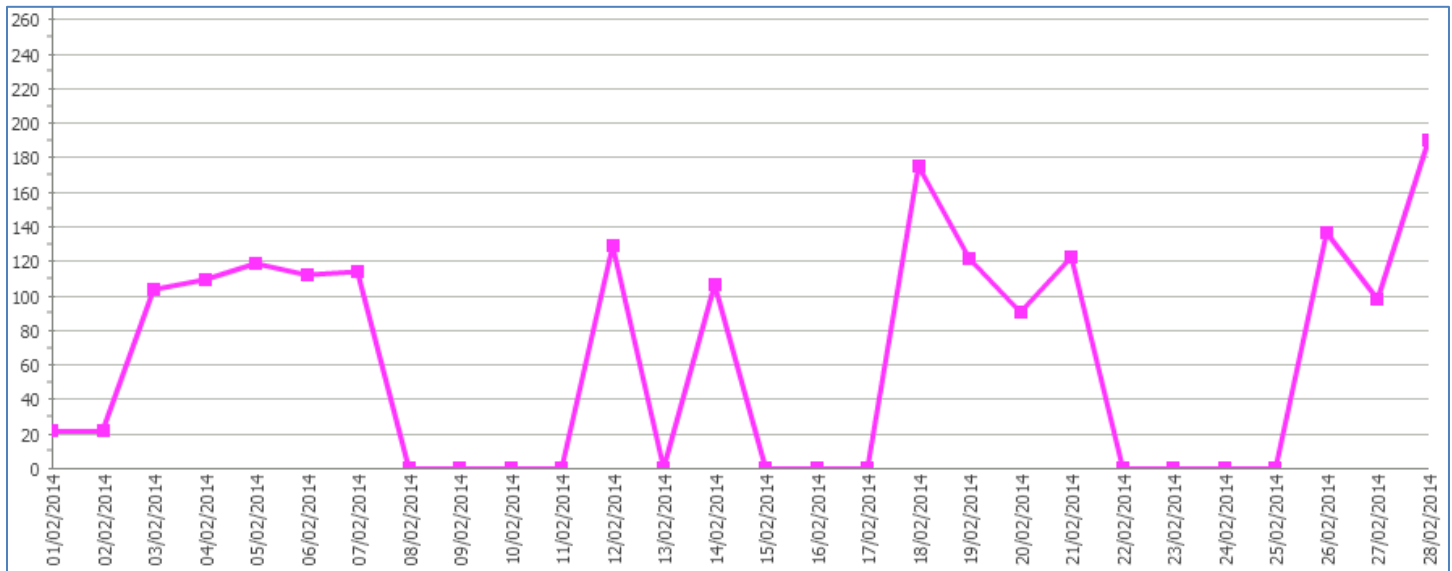
### Desktop License Statistics

- Total Users in February: 488
- Percent Change from January 2014: +11.92%
- Total Number of System Users: 1,002
- Percent Change from January 2014: +4.38%

License usage peaked on February 18, 2014 with 427 concurrent licenses in use

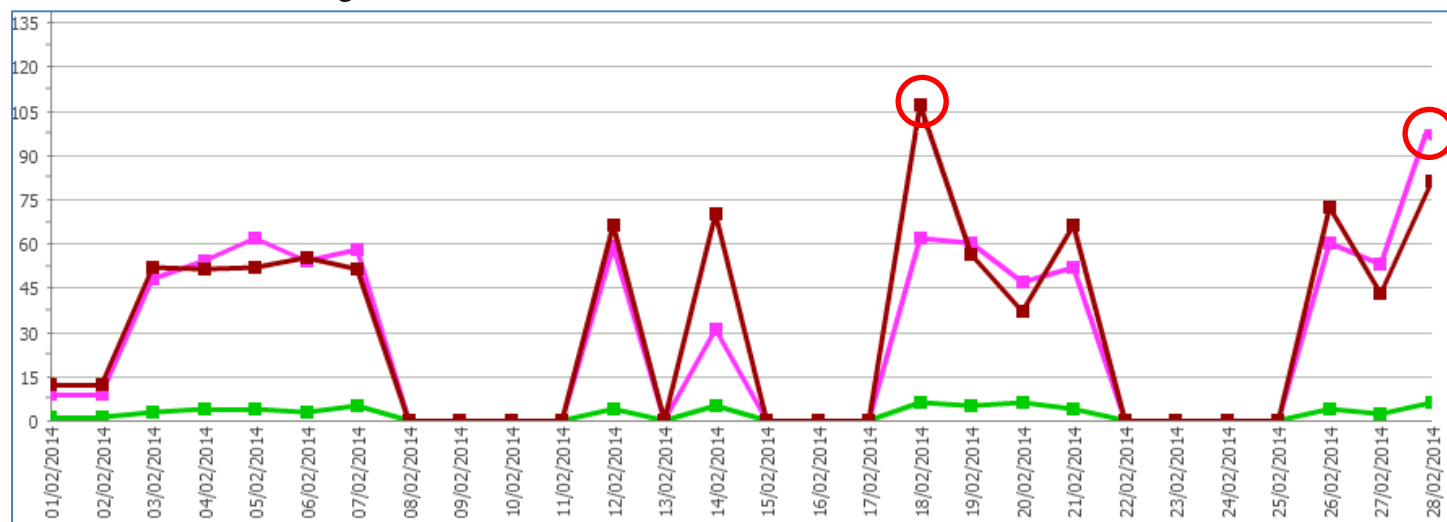


### Aggregated license usage of ArcView, ArcEditor and ArcInfo



22 22 103 109 118 112 114 0 0 0 0 129 0 106 0 0 0 175 121 90 122 0 0 0 0 136 98 190

## Breakdown of license usage for ArcView, ArcEditor and ArcInfo

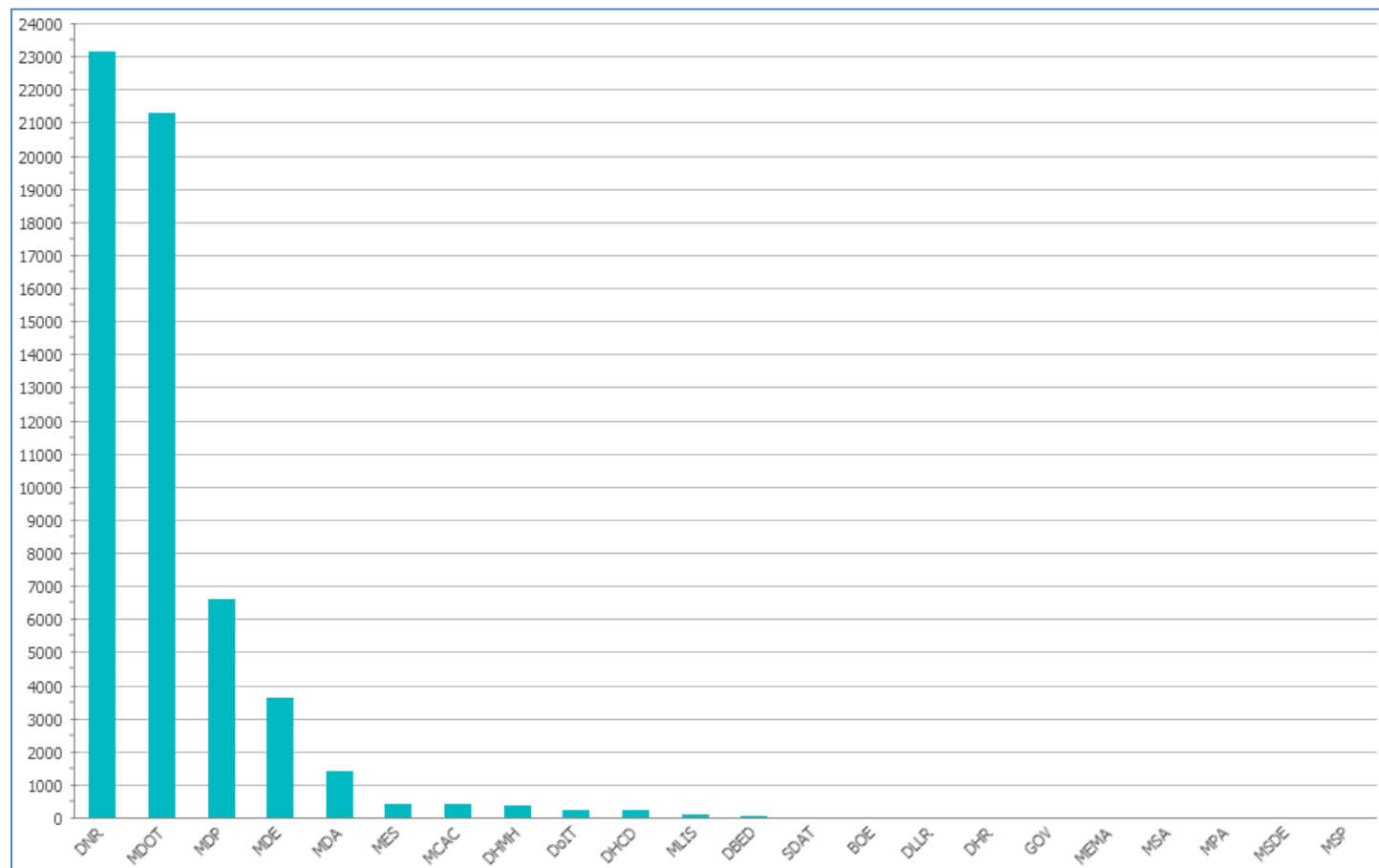


■ Max # of concurrent licenses for ArcView – February 18, 2014 with 107

■ Max # of concurrent licenses for ArcEditor – Multiple Days with 6

■ Max # of concurrent licenses for ArcInfo – February 29, 2014 with 103

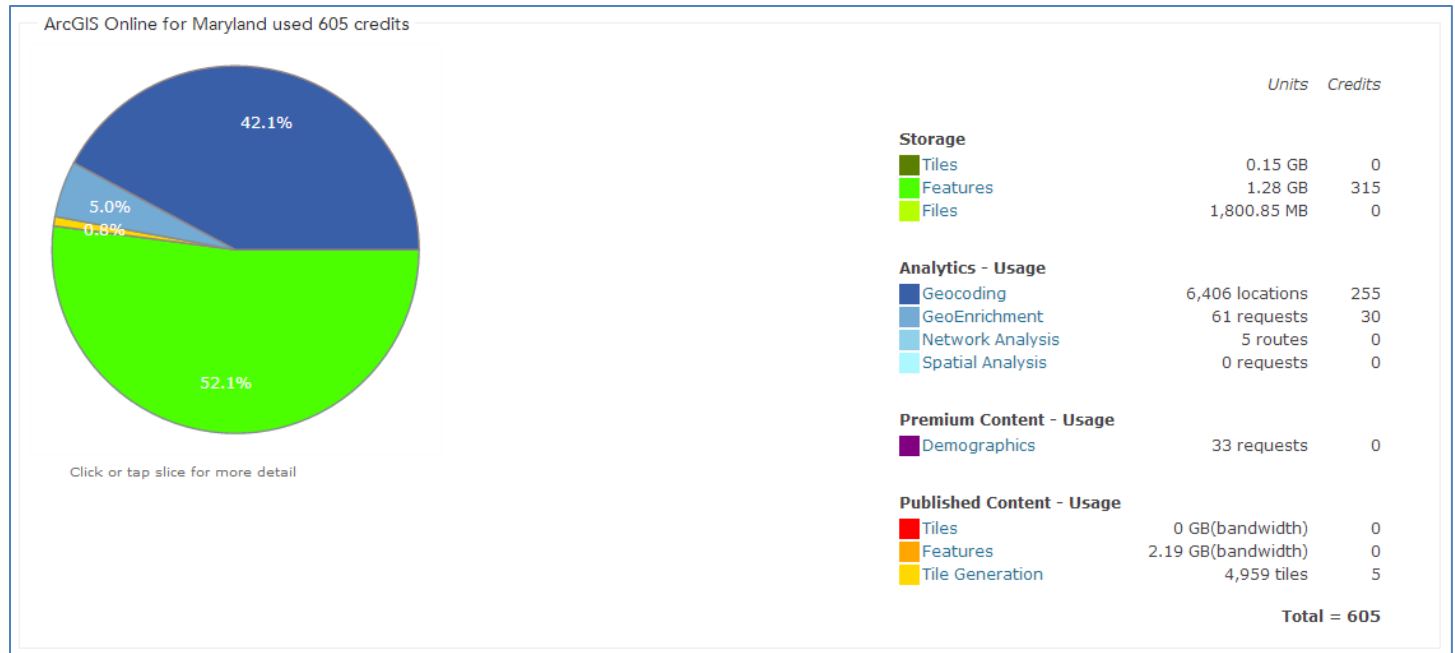
## Breakdown of license usage (in hours) by Group/Agency



## ArcGIS Online Statistics

- Total Number of Members as of February: 327
- Percent Change from January 2014: +2.2%
- Total Credits Used in February: 605
- Percent Change from January 2014: -70%
- Total Credits Remaining: 28,954

## Credit Usage for February 2014



- Tile generation should be done using ArcGIS Server rather than AGOL, if possible
- Tracking at the user level is coming from Esri in the near future

## Question: What is the philosophy for memberships?

- MDP shares the accounts amongst others and some are individual accounts for each agency
- GIO Office has been giving individual users accounts to those who have been interested and been minimizing the number of group accounts
- Account usage is high, but credit usage is modest
- There is an ELA break at 500 users, we can account for each individual user through individual accounts
- Potential to create AGOL standards and solicit the group for assistance
- Recently went through a clean-up of MDTA and deleted some accounts, could not done for other agencies if needed
- Kaushik Dutta has some concern about publishing data to the web and whether or not this should have happened
  - Had an incident that the data should not have been made public, but was, so there needs to be some training and communication about what should go onto AGOL and what should not
- Trying to manage users inside the system, MDTA has requested CIO approval before they can get an AGOL account requested, also deleted an account which is not being used

- Considerations should be written up and a template can be created for each agency to fill in the blanks
- Agencies data referenced into an MD iMap group, even if it is housed on an agencies' individual server
- Also want to be able to centrally search for applications, AGOL will help agencies do things on their own, but the look and feel is the same
- Want to know about extensions and costs of the extensions
- Policy to have all extensions turned off and only turn on as needed
- Matt Sokol has been working on a tool which will allow users to move from license level and also automatically start at ArcView without any of the extensions turned on
  - They will use the tool to access some of the higher licensing levels
  - Only include base level software at this time, but want to add the extensions in the future
- Executive Committee on the 21<sup>st</sup>, to discuss considerations for Socrata to be shared with the locals
  - Allowing the locals to have micro accounts
  - Allowing for 50 layers and requesting that some of the layers meet state interests
- Use what the Governor did in this budget to make a case to work better with the locals and move the relationships of data sharing forward
- Often do not distribute the data, because someone wants to sell it
- Bill introduced into Senate concerning Open Data, promote and establish policies for open, freely available data
  - Jim Cannistra and Barney Krucoff have reviewed portions
  - Senator Ferguson will be sponsoring and speaking at the Executive Committee meeting
- Share the link of the Bill
  - Does not replace the Executive Committee and Socrata Chief Data Officers, but suggests that we would have another committee which would overlap many of the issues already being addressed by these uses

### **MDP Budget Hearing Experience**

- MDP is trying to change the business model of MD Property View (MDPV) products and have gone through a lot of steps so far
- MDP's budget has been incorporated into the Governor's budget with Senate and House budget hearings to defend
- There were questions raised ahead of this budget hearing, but during the meeting there were no questions asked concerning MDPV
  - Sale of data specifically or of revenues of different products
- To date, support letters from MSGIC, MD iMap Executive Committee, Salisbury University representing ESRGC and academic community
- The committee will not find out anything official until session ends in April, but do far things are looking positive
- No news is good news is the considerations at this time, any changes would go into effect on July 1, next fiscal year
- This is a major change, agencies not paying for MDPV anymore, with CDs being loaded on individual servers, these services will instead be consumable from a central location, also available to the public
- Please do not hold out this year and not pay for MDPV, need to pay for FY14 and consider considerable changes in FY15 (DGS, DoIT and MAA have not yet paid for FY14)
  - This will significantly change how MDP does business with other state agencies

- There will be no DVD sending, make map service available, data download site and some other features the agencies will either need to use the services or download data as made available

**Question:** Still maintain?

- MDP intends to have one or more web applications available including FinderOnline, to have a lite AGOL only application with services available
- Have some data available as shapefiles, geodatabases for download and for the next year continue to bundle datasets with MDPV because there are still a lot of county customers
- Continue to the product suite as is for the foreseeable future and expand delivery availability
- Requests still up for the parcel polygons, many counties have been compiled and cleaned and many counties which do not provide the State with agreements to distribute, trying to get as many of these agreements in place for sharing, but this is not a universal coverage
- Will be a long term goal, perhaps pressure will come down on the counties once the data is available freely for the other counties

**MD iMap 2.0 (Presentation Available)**

- Virtual servers allow for quick response to utilization changes, can spin up additional servers when needed and spin down when not needed
- Taking advantage of advances in AGS software with 10.2.1
- Clustered for redundancy to allow for support if something fails
- Big change will be multiple sites (“public’ and “non-public”)
- Public everything is open to the public and open source compatible
- Non-public is application specific, derived data or secure data
  - Not visible to the public, but still usable in applications
- Have changed the categories, based on ISO standards, but meet our needs also
- More layers in services, rather than single services only
- Since 10.1 have access to dynamic workspaces, where layer order and symbology can be changed programmatically
- Get new data for the push of the new system, get more regular schedules for updates
- Make sure aliases allow for communication of fields for all users
- Want to send out template and standards for metadata
- Providing a new option for state agency data submission
  - Setup database for each agency
  - Agency can tap into each agency’s geodatabase along with the GIO and can push/pull data between these lines of communication
  - Submit directly into MD iMap database, rather than relying only on ftp or email
- Going to be a big transition because of applications and users pulling in data
- Provided lists of transferred data, moved data, new data, some have been compiled, some have Federal level access
- Going through a stress test period to assess performance of the new system, similar to what ESRGC conducted for LiDAR services

- Working to identify POC, at least 2 per agency, to go for data updates and expectations of when those updates are expected
- Provide additional data submission options for those not on SwGI
- Provide documentation about data conventions and standards for the new system

**Question:** Concern from management perspective about the amount of work to be done, what will happen on June 30?

- Domain will not work and services will no longer work
- Making all preparations of services and data to make users aware of what the new URL will be
- MDP has 20 to 30 applications with map services included, mxds with PropertyView and internal mxds which have service URLs included
  - The level of effort to replace will be significant
- The existing system is not working properly and needs to be overhauled, so we are responding to this
- Both systems will run concurrently for some time, want to make sure the transition is smooth
- April 15 the system will be turned on and then we can start installing software and setting up the system
- Reclassified the services already and will have these prepared for data loading shortly after April 15
- Any application has a couple months window to repoint to the new URLs
- Need to closely manage during the transition period
- Setup a mini MD iMap to continue to support some of the mxds in the field that will not be replaced until a future date
- Old MD iMap not going away right away
- Send us list of application services that are going to be impacted during this change
- Have some help for those who need to repoint these applications
  - Contractor/developer on contract from MES
  - Not going to do new stuff, but can help with Flex transitions
- Cannot do anything now because not yet ready, will have a 2 month window to make the transition
- The domain cannot be transferred because being hosted internally with the State will not allow for utilization of the existing domain and just change the IP address
- We might need CGIS on contract to keep the system alive for a few additional months
- To require all pieces of migration simultaneously is a big undertaking

**Question:** Does anyone know if there is a service redirect?

- Does this work on the desktop, probably not, because the full http stack is not included
- If this works there could be a redirect applied

## **Data Catalog**

- composer.dc.esri.com
- Adding new AGOL-based data catalog to be incorporated into our new system
- Behind the scenes a data service is registered with a group in AGOL and recognized by MD iMap
- Group for each ISO category at first and has to do with how the categories are managed through this tool
- Published to the group no matter where the origin is, it would appear in the data catalog and would be searchable

- There is going to be a location on the icon which will allow for identification of the agency that provides the data, the agency that is the data source
- Initially the limitations only allow one icon per group, but this will ideally be changed in the future
- Can click on one of the datasets and be able to download, API is the REST service
- In the future on Portal, the goal is all services will be feature service, whenever possible
- Any queryable map service which is made public can be downloaded using this resource
- Working with CGIS to organize the current map services and will need to be updated for the new services, making sure metadata is included, ISO category is added
- This site will replace <http://imap.maryland.gov/pages/search.aspx>
- Going to get a more attractive interface, better search and more options for what can be done with the results
- Currently only available for services hosted on one system, the new catalog can accommodate services from numerous system endpoints
- Esri demo would be wrapped in the State colors and would be Maryland only
- It is “free” from Esri at this time, had money in the budget to work on an interface that was homemade, but Esri is creating an alternative, so CGIS has been working on resources to accommodate this new interface from Esri
- Going to show examples of some of the other states which are participating
- Hope to show significant progress at TUGis
- Hope to do something similar with the Map Galley and is also AGOL-based in the background
- Prevents from having to publish data twice in two different locations, consolidated requests

**Question:** When upload service to AGOL is it living on their infrastructure?

- No, need to register in AGOL and can be in user group and referenced in the central group in AGOL

## **Data and Resources Subcommittee Updates**

### **Addressing Initiative Update**

- Focusing on maintenance and replication and ETL
  - CGIS almost wrapped up ETL
- Working with BMC ironing out issues with replication, further down the road then before
  - Solved some technical issues from BMC’s end, mutually beneficial
- Good response for relocation from multiple counties (about 10 now) and some others are interested and are willing to try it
- Russell Provost to develop a process to synchronize through windows scheduler automatically
- ETL is finished will be asking for a statewide update

### **Geocoder Update**

- Centerline locator, which is part of composite locator, has been updated in production to include municipality field, only street address with city and town name will get a response
- Regular centerline update also has been updated
- DoIT has been contacted about addressing inside of federal facilities/federal lands (military bases), this address is found in the Esri geocoder, but not in the State geocoder
- Have to click and select the Esri world geocoder to use it in AGOL, with the State as the default
- Can include Esri’s geocoder in the State’s cascading geocoder is one option
- Another option is to add the federal lands data into the existing cascading geocoder



- Add an option to allow for users to click and change which geocoder they might be using
- Might be able to get an Esri Streets for download and can put that on a server and use the geocoder from this resource to include in the cascading geocoder
- There have been some examples where State work has required the need for geocoding outside of the State boundaries
- Can test with an additional locator, we have already reached past the number of locators recommended, so this additional locator is not necessarily recommended
- There are firewall issues with some of the locators, would have to be resolved at the agency level

### **Centerline Updates (Email Available from Marshall)**

- Procurement of Esri Roads and Highways should occur by end of the month (February)
- Meeting with at least on County a week over the next couple months to discuss the centerline initiative. (met with Howard County this past week)
- Working on establishing data integration points for where state maintained road geometry intersects local government maintained road geometry. These integration points would first be generated from SHA's current state-wide centerline data and provided to each jurisdiction for their review and feedback when comparing the data to their respective centerline data. Once these are established it will streamline future state/local centerline data conflation efforts
- Continuing to work with BMC to minimize project redundancy for the local jurisdictions.
- Next Mid-Atlantic Centerline Steering Committee Meeting will be held at DDOT on February 18<sup>th</sup>
- Presenting on project at TUGis (panel and individual presentation) and GIS-T in May

### **LiDAR Webpage Update**

- Had the server load testing in January and thank you for those who participated
  - Overall had good results
  - Most response times were under 1 minute
  - Clipping and zooming to areas was a little more time consuming
- Added another server since then and put them behind F5 load balancer to better split the simultaneous requests when these occur
- Will monitor for when there might be significant simultaneous requests
- Passed the LiDAR URL page to Julia Fischer for inclusion on the Portal
  - Includes AGOL tabs for each county, viewer link, status map of captures past and future
- Adding final touches to the viewer, logos, legends and optimizing it for the iPad
  - Those changes should be done this week
- Meet with DoIT team to look at the viewer one more time and make an announcement to the broader community of availability

### **Question:** Doing anything to the services themselves?

- They are final, unless issues are reported
- Reminder that when the services go public, the services on ESRGC website will be decommissioned

**Question:** Dedicated grid issues, replacing the datasets related to the Pocomoke area, collected in UTM HARN, but projected in UTM and have to do some custom projecting to correct

- Think this will be out at TUGis, services available now

### **Application Subcommittee Updates (Template Update)**

- John Bocan new developer with MES/DoIT
- Primarily working on MD iMap Template application
- Some development, hope to get release out for github and AGOL soon
- Updates include:
  - ArcGIS Javascript 3.8
  - Added several toolsets
  - Query toolset to AGOL template
  - Ability to download .csv from the viewing screen
  - Added some measure tools
  - Added some drawing tools
  - Cleaning up some style and background code
- Example of what is being worked on can be viewed on the DoIT staging servers, contact John if you would like to see his progress or test some of the functionality

**Question:** How soon until done?

- Doing the updates in stages, hopefully an update to github and AGOL within a few weeks

**Question:** Email an example?

- There is an example on the DoIT staging server, it is public, [http://staging.geodata.md.us/imap\\_beta/index.html](http://staging.geodata.md.us/imap_beta/index.html)
- Adding more to this example within the next couple of days

### **TUGis Presentation Update**

#### **Additional Business**

- FedUC passes, hoping to have the final list this week from Anthony Puzzo, requested email verification
- Next Technical Committee Meeting: March 4, 2014
- Executive Committee Meeting: February 21, 2014
- Executive Committee Agenda
  - Not a lot on updates on MD iMap specifically
  - Show the data catalog page, very Socrata like
  - Need to discuss how these efforts overlap, there aren't too many customers who are actively using both
- New Acting CIO is Guy Lyle for MDOT, Chuck Bristow is retiring, more of a Security focus, networking background